

Comparison chart of **Excitron Au** Integrated Stepper Motors and Controllers

Comparative torque values in this chart will assist you in finding the best motor size for your application. These Excitron Controllers are intelligent and have built-in power drivers and electrical noise filters, and are fully integrated and matched with the stepper motor. Stepper motors are in the first column, and their part numbers are the width and length in millimeters, example: **SM42-47M** is 42mm wide x 47mm long, M means 0.45 degree per half-step, otherwise the motor has .90 degree per half-step. Clicking on a motor will connect you with the product page for that motor. Serial interface is RS232 ($\pm 10v$).

Stepper Motors	NEMA size	Degree/halfstep	Torque			Au motor and Controller
			in-oz	in-lb	Ncm	
SM20-33	8	0.90	2.5	.16	1.8	Au20-33
SM28-32	11	0.90	4	.25	2.8	Au28-32
SM28-45	11	0.90	9	.56	6.4	Au28-45
SM35-26	14	0.90	6	.38	4.2	Au35-26
SM35-36	14	0.90	9	.56	6.4	Au35-36
SM39-20	14	0.90	9	.56	6.4	Au39-20
SM39-34	14	0.90	23	1.4	16	Au39-34
SM42-33M	17	0.45	35	2.2	25	Au42-33M
SM42-38M	17	0.45	55	3.4	39	Au42-38M
SM42-47M	17	0.45	67	4.2	47	Au42-47M
SM57-40M	23	0.45	84	5.3	59	Au57-40M
SM57-66M	23	0.45	230	14.4	162	Au57-66M
SM57-76M	23	0.45	280	17.5	198	Au57-76M
SM60-45	23+	0.90	140	8.8	99	Au60-45
SM60-86	23+	0.90	380	23.8	268	Au60-86
SM86-65	34	0.90	512	32.0	361	Au86-65
SM86-80	34	0.90	704	44.0	497	Au86-80
SM86-118	34	0.90	1328	83.0	938	Au86-118
SM86-156	34	0.90	1952	122.0	1378	Au86-156
SM110-100	42	0.90	1632	102.0	1152	Au110-100
SM110-150	42	0.90	3200	200.0	2259	Au110-150
SM110-180	42	0.90	3904	244.0	2756	Au110-180
SM110-201	42	0.90	4160	260.0	2937	Au110-201

Small Gear Motors	NEMA size	Degree/halfstep	Torque			Au motor and Controller
			in-oz	in-lb	Ncm	
SGM24-19-64	--	2.8125	20	1.25	14	--
SGM25-25-30	--	3.75	25	1.56	18	Aug25-25-30
SGM30-20-85	--	3.75	24	1.50	17	--
SGM35-20-85	--	3.75	25	1.56	18	--
SGM35-30-30	--	3.75	24	1.50	17	--

Note: gear ratio is the 3rd set of digits, if applicable

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